#### CALIFORNIA COASTAL COMMISSION

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Staff: Jim Baskin

September 1, 2005 Staff Report: September 14, 2005 Hearing Date:

Commission Action:

# **STAFF REPORT: REGULAR CALENDAR**

APPLICATION NO.: 1-05-040

APPLICANT: City of Eureka

Pacific Affiliates AGENT:

PROJECT LOCATION: Within Humboldt Bay and along the ocean

side of the Samoa Peninsula, Humboldt

County.

PROJECT DESCRIPTION: Disposal of approximately 80,390 cubic

> yards of material and dispose of the dredged material via slurry pipeline at a beach disposal site in the tidal zone along the ocean shoreline of the Samoa Peninsula.

LOCAL APPROVALS RECEIVED:

1) Humboldt County Coastal Development Permit No. CDP-04-37, approved January 20, 2005 and Conditional Use Permit No. CUP-04-13 approved January 20, 2005; and 2) Humboldt Bay Harbor, Recreation, and Conservation District Permit for City of Eureka dredging approved October 14, 2004 and CEQA Negative Declaration approved

October 14, 2004.

# OTHER APPROVALS OBTAINED OR REQUIRED:

1) State Lands Commission Approval; 2) Regional Water Quality Control Board **FCWA** Section 401 Water Ouality Certification No. 1A04140WNHU, issued August 26, 2005; 3) U.S. Army Corps of Engineers FCWA Section 404 Individual Permit No. 22216N, issued December 10, 1997, expires March 15, 2008; and 4) U.S. Army Corps of Engineers Letter of Modification to FCWA Section Individual Permit No. 22216N (pending).

#### SUBSTANTIVE FILE DOCUMENTS:

1) County of Humboldt Local Coastal Program; 2) Coastal Development Permit Application No. 1-87-172, issued March 2, 1988; 3) U.S. Army Corps of Engineers FCWA Section 404 Individual Permit No. 22216N, issued December 10, 1997, expires March 15, 2008; and 4) U.S. Army Corps of Engineers Letter of Modification to FCWA Section 404 Individual Permit No. 22216N (pending).

#### **SUMMARY OF STAFF RECOMMENDATION:**

Staff recommends that the Commission approve with conditions the coastal development permit application submitted by the City of Eureka for disposal of dredged material at a surf zone disposal site on the ocean side of the Samoa Peninsula. The proposed project is similar to a previous maintenance dredging projects approved by the Commission in 1988 and 1998 entailing surf zone spoils disposal. Based on: (1) the results of a monitoring study conducted of the surf zone disposal site used in 1988 and 1998; (2) data within the environmental review documentation prepared for the project; and (3) information generated by the applicants' consultants in response to letters commenting on the project by interested state and federal agencies, the staff has concluded that the proposed project will not have a significant impact on the environment and is consistent with the Coastal Act.

The surf zone disposal site does not have sensitive habitat areas, although intertidal organisms would be temporarily affected by the disposal. The 1998 monitoring report indicated that species abundance and composition recovered to near pre-project levels within four months of deposition of material at the site. The proposed project is consistent with the use limitations of Sections 30233 and 30231 of the Coastal Act for

dredging and fill projects. Use of the principal alternative disposal site for the dredged material, the offshore Humboldt Open Ocean Disposal Site (HOODS) disposal site, would not result in an environmentally less damaging alternative as use of the HOODS site would require the transfer of dredged sediment to vessels, which in turn would increase turbidity at the transfer site within Humboldt Bay near habitat areas more sensitive than at the proposed surf zone disposal site.

To ensure that the project is fully consistent with the Coastal Act and that Commission has sufficient information to evaluate future maintenance dredging projects along the Eureka waterfront, staff recommends that the Commission attach six special conditions to the approval of the permit. Special Condition No. 1 requires the applicant, prior to issuance of the permit, to prepare, submit for the review and approval by the Executive Director, and implement a five-year monitoring program in the vicinity of the surf zone disposal site to assess impacts to survey the dispersal of the disposed sediments and assess the impacts of the dredged materials on epibenthic and littoral marine organisms. Special Condition No. 2 requires the applicant, prior to issuance of the permit, to similarly prepare, submit for the review and approval by the Executive Director, and implement a dredge spoils and hazardous materials spill contingency plan for responding to any accidental releases of dredge spoils and related pumping fuels and lubricants. Special Condition No. 3 requires the applicant, prior to commencement of the dredging activities, to provide a copy of any Letter of Modification to Federal Clean Water Act Section 404 Individual Permit No. 22216N as may be issued by the U.S. Army Corps of Engineers, for the Executive Director's review and determination as to whether a coastal development permit amendment would be required. The condition further requires that the dredging not be commenced until any required permit amendment is obtained from the Commission. Special Condition No. 4 requires the applicant, prior to issuance of the permit, to obtain a permit amendment from the Humboldt Bay Harbor, Recreation, and Conservation District (HBHRCD) to authorize dredge spoils disposal from all eleven proposed maintenance dredging sites. Similarly, Special Condition No. 5 requires the applicant to obtain an amendment to the dredging lease issued by the state Lands Commission covering dredge spoils disposal into sovereign state waters originating from all eleven dredging sites. Special Condition No. 6 requires the applicant, prior to issuance of the permit, to submit a copy of the final biological opinion issued for the National Marine Fisheries Service (NOAA Fisheries) for this proposed round of maintenance dredging, and to not initiate the dredging if the opinion results in changes to the Corps' permit until a coastal development permit amendment has been obtained from the Commission or the Executive Director determines that no amendment is necessary. Special Condition No. 7 requires the applicant to submit, for the review of the Executive Director, a copy of the consistency determination prepared by the California Department of Fish and Game pursuant to the California Endangered Species Act (CESA) regarding the conformance of NOAA Fisheries' incidental take statement with the CESA. Special Condition No 8 requires the applicant to conduct maintenance flushing of the dredge suction-cutting head and spoils transmission pipeline, and replace dislodged rock slope protection materials, subject to specified performance standards to minimize the entrainment of juvenile salmonids and other environmentally sensitive estuarine organisms, and impacting eelgrass, respectively. Finally, Special Condition No. 9 prohibits the nearshore uncontained aquatic disposal of sediments from one of the dredging sites, the Coast Seafoods Company dock, that have been determined to contain unacceptable levels of contaminants.

Significant controversy continues to exist as to whether or not the materials to be dredged from the marina areas are suitable for disposal in the nearshore environment. Numerous members of the public have expressed concerns, based on anecdotal reports and perceptions that past nearshore spoils disposal has resulted in impacts to marine biological resources, navigable waters, human health, and coastal recreational opportunities, and that these impacts will likely be repeated if the dredged sediments are allowed to be disposed off in the manner proposed by the applicant. The Commission's water quality, coastal engineering, and biological technical services staff have reviewed the various technical materials relating to the application and have concluded that, with the attachment of the special conditions enumerated above, potential impacts to coastal resources and public health would be reduced to less than significant levels while providing for the maintenance necessary for protecting high priority docking and berthing facilities for commercial fishing and water-based coastal recreational uses. Thus, as conditioned, staff believes that the project is fully consistent with the Coastal Act.

The Motion to adopt the Staff Recommendation of Approval with Conditions is found on page 7.

#### **STAFF NOTES**:

# 1. Withdrawal and Resubmittal of Application

The Commission opened the public hearing on the application for the proposed maintenance dredging at its meeting on August 12, 2005. Following presentation of the staff recommendation and testimony from interested parties regarding the appropriateness for disposing of the dredged materials in the nearshore environment, the Commission expressed concerns as to whether the potential water quality impacts of the project had been thoroughly examined. As the Commission was bound by the Permit Streamlining Act to take action on the application, and with the likelihood of a denial of the project based upon an absence of information substantiating the development's conformance with applicable Coastal Act water quality policies, at the Commission's behest, the applicant subsequently withdrew the application with the understanding that the application would be resubmitted and considered at a later hearing. Upon agreeing to withdraw and resubmit the application, the Commission directed the staff to conduct an in-house review of the chemical assessment of the sediments proposed for dredging. On August 15, 2005, the applicant re-applied for an identical maintenance dredging project, the subject of this permit hearing.

Since the August hearing, the Commission's Water Quality Unit has reviewed the chemical analysis of the sampled sediments proposed for dredging and considered the recommendations of the U.S. Environmental Protection Agency (USEPA) and the California Department of Fish and Game (CDFG) with regard to the appropriateness of nearshore disposing of these materials. Based on this review, Commission staff has concluded that the project will not significantly impact coastal resources. The staff continues to recommend that nearshore disposal of the spoils be authorized for the proposed maintenance dredging provided that: (1) sediments from one of the dredging areas deemed to be unsuitable for uncontained aquatic disposal be prohibited from being disposed of in the ocean; and (2) adequate monitoring is performed to track the movement and dispersal of the dredged materials. Detailed findings concerning the Water Quality Unit's review of the project are contained in Findings Section IV.C, "Protection of Marine and Estuarine Resources."

The Commission will conduct public hearing and may vote on the new application at its September 14, 2005 meeting.

# 2. Permit Exemptions for Dredging.

The submitted application includes a request for authorization of 80,390 cubic yards of maintenance dredging at eleven vessel berthing/launching sites along the City of Eureka waterfront of Humboldt Bay. Pursuant to Coastal Act Section 30610(d), as detailed in Section 13252(a)(2)(A) of the Commission's administrative regulations, any method of routine maintenance dredging that involves the dredging of less than 100,000 cubic yards within a twelve month period similarly does not require a coastal development permit. As the proposed maintenance dredging of the eleven non-navigational channel areas within the harbor would involve less than 100,000 cubic yards in a twelve-month period, no coastal development permit is required for the dredging portions of the project. Therefore, the proposed dredging itself is not before the Commission for Commission action.

Pursuant to Coastal Act Section 30106 and Section 13252(a)(2)(B) of the Commission's administrative regulations, however, a coastal permit is required for disposal of dredge material onto areas within the coastal zone. The applicant has requested to dispose of suitable dredged materials into the nearshore area along the Samoa Peninsula. This area is located within the coastal zone. Therefore, the applicant has applied for a permit to authorize disposal at the disposal site via a slurry pipeline that would extend from the dredging locations to the disposal site. The Commission must review the placement and operation of the pipeline as well as the disposal for consistency with the Coastal Act.

#### 3. Standard of Review

The portions of the proposed project being considered in Application No. 1-05-040 are located in tidelands, submerged areas, and lands subject to the public trust within the Commission's retained jurisdictional area. Therefore, the standard of review that the Commission must apply to the project is the Coastal Act.

#### 4. Other Required Permits and Authorizations.

As stated above, the actual dredging activity is primarily regulated by the U.S. Army Corps of Engineers. In addition, the California Regional Water Quality Control Board regulates the discharges of materials into waters subject to the federal and state Clean Water Acts. The Corps is currently consulting with the National Marine Fisheries Service (NOAA Fisheries) for an interim review of the potential effects that the current round of maintenance dredging might have on salmonid fish species pursuant to Section 7 of the Federal Endangered Species Act and the Magnuson-Stevens Fishery Conservation and Management Act. Release of a final biological opinion from NOAA Fisheries is pending. Depending upon the conclusions and recommendations contained in the final opinion, changes to the Corps permit may result and would be implemented through a "Letter of Modification" issued by the Corps.

The project is also subject to the permit jurisdiction of two local agencies: (1) the Humboldt Bay Harbor, Recreation, and Conservation District (HBHRCD or "Harbor District") for the portions of the project situated at and below the Mean Higher High Water (MHHW) level (+6.52 feet NAVD<sub>1988</sub>) within the waters of Humboldt Bay and the Mean High Water (MHW) elevation (+5.81 feet NAVD<sub>1988</sub>) on Woodley Island; and (2) the County of Humboldt for the portions of the dredge spoils pipeline located outside of the incorporated boundaries of the City of Eureka.

On October 14, 2004, the HBHRCD adopted a mitigated negative declaration environmental review document and approved Permit No. 04-02 for the District to conduct maintenance dredging and nearshore disposal of materials from ten sites of the eleven proposed sites along the City's waterfront over a ten-year period.

On December 12, 2004, the State Lands Commission (SLC) issued a lease dredge spoils disposal into sovereign state waters from ten of eleven of the dredging sites.

On January 20, 2005, the County of Humboldt Planning Commission conditionally approved Coastal Development Permit No. CDP-04-38 and Conditional Use Permit No. CUP-04-14 for the City's dredging and spoils disposal project.

Finally, on August 26, 2005, the Regional Board issued Federal Clean Water Act Section 401 Certification No. 1A04140WNHU for the proposed maintenance dredging (see Exhibit No. 10).

# 5. Relation to Application No. 1-05-039

Application No. 1-05-039 (Humboldt Bay Harbor, Recreation, and Conservation District) and Application No. 1-05-040 (City of Eureka) are both scheduled for consideration at the September 14, 2005 Commission meeting. The two applications are related in that the applications: (1) are for development that will be performed as one project by the same contractor; and (2) will share the same disposal site and disposal pipeline. Two separate applications were submitted because the areas to be dredged are administered by the two different public entities pursuant to two separate legislative grants of tidelands.

# I. MOTION, STAFF RECOMMENDATION AND RESOLUTION:

The staff recommends that the Commission adopt the following resolution:

# **Motion:**

I move that the Commission approve Coastal Development Permit No. 1-05-040 pursuant to the staff recommendation.

### **Staff Recommendation of Approval:**

Staff recommends a **YES** vote. Passage of this motion will result in approval of the permit as conditioned and adoption of the following resolution and findings. The motion passes only by affirmative vote of a majority of the Commissioners present.

#### **Resolution to Approve the Permit:**

The Commission hereby approves a coastal development permit for the proposed development and adopts the findings set forth below on grounds that the development as conditioned will be in conformity with the policies of Chapter 3 of the Coastal Act. Approval of the permit complies with the California Environmental Quality Act because either: 1) feasible mitigation measures and/or alternatives have been incorporated to substantially lessen any significant adverse effects of the development on the environment; or 2) there are no further feasible mitigation measures or alternatives that would substantially lessen any significant adverse impacts of the development on the environment.

#### II. STANDARD CONDITIONS: See Attachment A.

#### III. SPECIAL CONDITIONS:

# 1. Monitoring Report

#### A. PRIOR TO ISSUANCE OF COASTAL DEVELOPMENT PERMIT NO. 1-

**05-040**, the applicant shall submit for the review and approval of the Executive Director a surf zone disposal monitoring plan that provides for monitoring over a five year period of: (1) the pattern and rate of dispersal of material deposited at the site; (2) sediment characteristics at the disposal site and at the control site; (3) the species composition and abundance of intertidal invertebrates in areas directly affected by the disposal of dredge spoils and at a control site near the disposal area over a three year period; and (4) the effects of the surf zone disposal on fisheries. Specific dispersal monitoring provisions shall include: (a) pre- and postdisposal aerial photographs; (b) hygrographic surveys, scanning sonar, fathometer soundings, or other similar bathymetric measurements; (c) turbidity or opacity measurements; and (d) sediment core samples of the immediate area of the dredge materials disposal site and extending offshore to a closure depth of -40 feet msl and three times the distance to the depth of closure laterally north and south of the disposal site along the adjoining ocean shoreline, taken at appropriate intervals to adequately monitor the movement and dispersal of discharged materials, and to characterize the composition of nearshore ocean sediments and epibenthic marine habitat. The plan shall provide for submittal of reports providing the required monitoring information before, during, and within four months after conclusion of the disposal operation, and yearly reports thereafter to be submitted by July 1 of each year.

- B. In the event that the monitoring program reveals that the turbidity generated by the discharge exceeds 20% of the background levels of the receiving waters or persistent shoaling or beach deposition of dredged materials in concentrations that could cause significant adverse impacts to marine biological resources, coastal recreational activities, or navigation, the permittee shall prepare and submit, for the review and approval of the Executive Director, within 60 days of submittal of the final monitoring report, a dredged materials remediation plan identifying corrective actions to be undertaken to restore the affected areas to their predisposal conditions. The plan shall identify appropriate remedial actions to be taken, including mechanical and hydraulic removal, ex-situ treatment, capping, insitu remediation, or natural attenuation and continued monitoring efforts, if the disposed dredged materials fail to disperse, persist on the receiver beach and intertidal areas, or cause significant adverse impacts to marine organisms within the study area at the end of the initial five-year period. Specific actions shall also be identified to reduce the turbidity generated by the discharge of the dredged materials to less than 20% or less of the background levels of the receiving waters. The plan shall be processed as an amendment to the coastal development permit unless the Executive Director determines that no amendment is required.
- C. The permittee shall undertake the dredging spoils transmission and nearshore

disposal activities in accordance with the approved final plan. Any proposed changes to the approved final plans shall be reported to the Executive Director. No changes to the approved final plan shall occur without a Commission amendment to this coastal development permit unless the Executive Director determines that no amendment is required.

### 2. Dredge Spoils Slurry /Hazardous Materials Spill Contingency Plan

# PRIOR TO ISSUANCE OF COASTAL DEVELOPMENT PERMIT NO. 1-A. 05-040, the applicant shall submit for Executive Director approval a projectspecific dredge spoils slurry monitoring and spill contingency plan that includes: (a) an estimate of a reasonable worst case release of dredge spoils, and pumpingrelated fuels and lubricants into coastal waters or wetlands that could result from project operations; (b) a clear protocol for monitoring and minimizing the risks of the transmission of dredge spoils through environmentally sensitive areas during maintenance dredging operations, including criteria for identifying unanticipated slurry release and proposed transmission pipeline sealants or other repair materials; (c) a response and clean-up plan in the event of a spill or accidental discharge of dredge spoils and/or pump fuels and lubricants; (d) a list of all clean-up equipment that will be maintained on-site; (e) the designation of the onsite person who will have responsibility for implementing the plan; (f) a telephone contact list of all regulatory and public trustee agencies having authority over the development and/or the project site and its resources to be notified in the event of a spill or material release; and (g) a list of all conduit and pumping materials, fluids, additives, and sealants that will be used or might be used in the transmission and pumping of the dredge spoils, together with Material Safety Data Sheets for each of these materials.

- B. The permittee shall undertake the dredge spoils disposal activities in accordance with the approved final plan. Any proposed changes to the approved final plans shall be reported to the Executive Director. No changes to the approved final plan shall occur without a Commission amendment to this coastal development permit unless the Executive Director determines that no amendment is required.
- C. In the event that a spill or accidental discharge of dredge spoils or other fuel or lubricant fluids occurs during spoils disposal operations, all maintenance dredging and disposal activities shall cease and shall not recommence except as provided in subsection (D) hereof:
- D. Following discovery of the spill or accidental discharge of dredge spoils or other fuel or lubricant fluids, the permittee shall submit to the Executive Director a revised project and restoration plan prepared by qualified professional(s) that provides for: (1) necessary revisions to the proposed project to avoid further spill or accidental discharge of spoils and/or fluids; and (2) restoration of the area(s)

affected by the spill or accidental discharge to pre-project conditions. The revised project and restoration plan shall be consistent with any applicable requirements of the State and/or Regional Water Resources Control Board(s). The revised project and restoration plan shall be processed as an amendment to the coastal development permit. Maintenance dredging and disposal may not recommence until after an amendment to this permit is approved by the Commission.

# 3. <u>Conformance with USACOE Requirements</u>

**PRIOR TO COMMENCEMENT OF OPERATIONS AUTHORIZED UNDER THIS PERMIT**, the permittee shall submit to the Executive Director for review, a copy of the Letter of Modification to U.S. Army Corps of Engineers Permit No. 22215N, or evidence that no other USACOE permit or authorization is necessary for aquatic nearshore disposal of dredge spoils from the specified eleven sites along the City of Eureka's Humboldt Bay waterfront. The applicant shall inform the Executive Director of any changes to the project required by the U.S. Army Corps of Engineers or the U.S. Environmental Protection Agency. Such changes shall not be incorporated into the project until the applicant obtains a Commission amendment to this coastal development permit, unless the Executive Director determines that no amendment is required.

# 4. State Lands Commission Dredging Lease Amendment

PRIOR TO ISSUANCE OF COASTAL DEVELOPMENT PERMIT NO. 1-05-040, the applicant shall provide to the Executive Director a copy of the dredging lease amendment issued by the State Lands Commission (SLC) or evidence that no lease, lease amendment, or other authorizations are required for the disposal of dredge spoils originating from any of the proposed dredging sites. The applicant shall inform the Executive Director of any changes to the project required by the SLC. Such changes shall not be incorporated into the project until the applicant obtains a Commission amendment to this coastal development permit, unless the Executive Director determines that no amendment is legally required.

# 5. Humboldt Bay Harbor, Recreation, and Conservation District Approval

**PRIOR TO ISSUANCE OF COASTAL DEVELOPMENT PERMIT NO. 1-05-040,** applicant shall provide to the Executive Director a copy of a permit or permit amendment issued by the Humboldt Bay Harbor, Recreation, and Conservation District (HBHRCD) or letter of permission, or evidence that no permit or permission is required for the disposal of dredge spoils originating from any of the proposed dredging sites. The applicant shall inform the Executive Director of any changes to the project required by the HBHCRD. Such changes shall not be incorporated into the project until the applicant obtains a Commission amendment to this coastal development permit, unless the Executive Director determines that no amendment is legally required.

# 6. Final Biological Opinion

#### PRIOR TO ISSUANCE OF COASTAL DEVELOPMENT PERMIT NO. 1-05-040.

the applicant shall submit, for the review and approval of the Executive Director, a copy of the Final Biological Opinion in support of the maintenance dredging spoils disposal authorized by this permit as issued by the National Marine Fisheries Service. The permittees shall inform the Executive Director of any changes to the project required by the U.S. Army Corps of Engineers as set forth in the biological opinion. Such changes shall not be incorporated into the project until the permittees obtain a Commission amendment to this coastal development permit, unless the Executive Director determines that no amendment is legally required.

# 7. Conformance with California Department of Fish and Game

#### PRIOR TO ISSUANCE OF COASTAL DEVELOPMENT PERMIT NO. 1-05-040.

the applicant shall submit, for the review and approval of the Executive Director, a copy of the consistency determination as may be prepared by the California Department of Fish and Game (CDFG) pursuant to Fish and Game Code 2080.1, in response to any incidental take permit issued for coho salmon (Oncorhynchus kisutch) by the National Marine Fisheries Service (NOAA Fisheries) for the project. The permittees shall inform the Executive Director of any changes to the project required by any Fish and Game Code Section 2081(b) Take Permit issued by the CDFG. Such changes shall not be incorporated into the project until the permittees obtain a Commission amendment to this coastal development permit, unless the Executive Director determines that no amendment is legally required.

#### 8. Maintenance Dredging Line Flushing Responsibilities

- A. The permittee shall comply with the following dredge spoils disposal pipeline maintenance program-related requirements:
  - (1) Periodic flushing of the pipeline shall be undertaken at a depth of three (3) feet above the bay bottom; and
  - (2) Water intake from the middle or surface of the water column is prohibited.
- B. The permittee shall perform the proposed development consistent with these maintenance responsibilities. Copies of these mitigation measures shall be incorporated into all contractual documents for the development and a copy of the mitigation measures kept at the development site and made available to workers.
- 9. <u>No Ocean Disposal of Dredged Materials from Dredging Site No. 4 Coast Seafoods Company Dock</u>

Due to high levels of contaminants that make them unsuitable for ocean disposal, none of the dredged materials originating from Dredging Site No. 4 – Coast Seafoods Company Dock shall be disposed of at the Samoa Peninsula nearshore outfall area authorized by this permit or any other ocean disposal site.

# IV. FINDINGS AND DECLARATIONS:

The Commission hereby finds and declares:

#### A. Project and Site Description.

The applicant proposes to dispose of a total of approximately 80,390 cubic yards of maintenance dredging material from vessel berthing areas along the Eureka waterfront (see Exhibits No. 3). The submitted application includes a request for authorization of 80,390 cubic yards of maintenance dredging at eleven vessel berthing/launching sites along the City of Eureka waterfront of Humboldt Bay. Pursuant to Coastal Act Section 30610(d), as detailed in Section 13252(a)(2)(A) of the Commission's administrative regulations, any method of routine maintenance dredging that involves the dredging of less than 100,000 cubic yards within a twelve month period similarly does not require a coastal development permit. As the proposed maintenance dredging of the eleven non-navigational channel areas within the harbor would involve less than 100,000 cubic yards in a twelve-month period, no coastal development permit is required for the dredging portions of the project. Therefore, the proposed dredging itself is not before the Commission for Commission action.

Pursuant to Coastal Act Section 30106 and Section 13252(a)(2)(B) of the Commission's administrative regulations, however, a coastal permit is required for disposal of dredge material onto areas within the coastal zone. The applicant has requested to dispose of suitable dredged materials into the nearshore area along the Samoa Peninsula. This area is located within the coastal zone. Therefore, the applicant has applied for a permit to authorize disposal at the disposal site via a slurry pipeline that would extend from the dredging locations to the disposal site. The Commission must review the placement and operation of the pipeline as well as the disposal for consistency with the Coastal Act.

The berthing maintenance would be performed by dredging by a suction line equipped with a cutting head. The resulting sediment/baywater slurry would be transmitted via a pipeline to a beach disposal site on the ocean side of the Samoa Peninsula, the landmass that forms the western boundary of Humboldt Bay. The dredging would be performed at the same time as a maintenance dredging project at the Woodley Island Marina boat basin by the Humboldt Bay Harbor District (being considered by the Commission as Coastal Development Permit Application No. 1-05-039). The two projects would be performed by the same contractor and would share the same disposal pipeline and disposal site.

The dredge is a pontoon-mounted crane that lowers a dredge boom, containing a cutter head coupled with a suction pipe, to the bottom. As the cutter head rotates and loosens the bottom material, the material is drawn directly up the suction pipe to the surface and the slurry of sediment and water is then pumped through a floating semi-flexible disposal pipeline, assisted by land based booster pumps for pipeline transfer to the designated disposal area in the surf zone of the Samoa Peninsula. The pipeline is floated across minimal access open water areas and weighted and submerged where crossing navigable waters. Placement of the pipeline in the water would be from a slow moving barge, and the pipeline would be routed through an existing carrier pipes and overland to the approximately 20 acre beach disposal site. The total length of the pipeline is 21,400 feet (4.5 miles), with approximately 6,000 feet overland, and the remaining the remaining 15,400 feet in Humboldt Bay.

The 12-inch diameter suction pipe, with a pumping rate of 15-20 feet-per-second, would remove approximately 200 cubic yards of solid material per hour depending on site conditions and dredging operators, and dispose of the material at a similar rate. Unless maintenance or repair is necessary, the dredge is expected to operate 24-hours a day, six to seven days per week. The pipeline is inspected regularly and maintained to insure integrity and prevent leaks or breaks. The dredge and the shore-based booster pumps rely on diesel engines and generate the noise and exhaust roughly equivalent to that of a semi-tractor truck when operational. In order to purge the pipeline of any accumulated sediment, the cutter head would be lifted off the bottom twice a day, and water from the water column would be drawn into the cutter head for approximately 20 minutes.

Once the dredge and crew arrive in Humboldt Bay, mobilization of the spoils line, booster pumps and dredge is expected to take 10 to 15 days. Dredging is scheduled to commence on November 1, 2005 and is expected to be completed by March 31, 2006.

#### 1. Proposed Maintenance Dredging Sites

The eleven dredging sites extend eastward from Dock "B," situated along the City's western industrial waterfront to the Samoa Bridge Launch Ramp, located beneath the southern span of the Samoa Bridge (SR 255). The berthing areas are all primarily used by commercial fishermen or recreational boaters, although a couple of the sites are currently vacant, one site is used for moorage of a Coast Guard Cutter, and another for the City's fire boat.

The exempt maintenance dredging project is being undertaken by the City as part of an overall project to renovate and restore the Old Town Waterfront and several water dependent facilities of the once prosperous fishing industry of Humboldt Bay. The dredging sites and the amounts to be dredged at each location are summarized in Table No. 1 below.

Table One: Proposed Maintenance Dredging Sites - City of Eureka Waterfront Area

Site	Length (feet)	Width (feet)	Dredging Area (acres)	Dredge Volume (yd³)	Work Period (days)
1. Dock "B"	700	43.8	0.704	14,000	7
2. Eureka Small Boat Basin	1,200	308.5	8.49	39,000	21
3. Commercial Street Dock	650	20	0.298	1,370	2
4. Coast Seafoods Company Dock	212	32	0.156	3,800	5
5. Fisherman's Terminal	395	60	0.543	12,000	7
6. "F" Street Floating Dock	90	38	0.08	1,700	3
7. "I" Street Dock	200	50	0.230	5,000	4
8. "J" Street Dock	112.5	40	0.103	1,400	3
9. Adorni Center Dock	35	30	0.02	1,320	2
10. Bonnie Gool Guest Dock	200	20	0.092	600	2
11. Samoa Bridge Launch Ramp	75	50	0.100	200	2
Totals:	3,869.5	692.3	10.816	80,390	58

# Site No. 1: Dock "B"

Dock "B" is located on the Outer Reach of the Eureka Channel approximately 1,000 feet southwest of the Eureka Public Berthing Facility (formerly known as the Small Boat Basin). The wooden structure adjacent to the maintained 35-foot deep channel was used in the past for loading lumber and logs (as late as the 1950s) for export from Humboldt Bay. The decline of the timber industry relegated the facility to duty as a location to off-load commercial fishing boats.

The proposed dredging of the Dock "B" moorage would entail the removal of an estimated 14,000 cubic yards of sediment from 700 lineal feet of dock frontage to a project depth -24 feet Mean Lower Low Water (MLLW). Dredging would daylight near the east channel line at the project depth and extend 50 feet beyond the north and south ends of the original structural footprint. A forty-five degree flare from the northwest and southwest dock corners would be excavated to ease future vessel berthing. Slopes from final depths shall be cut at 2:1 or left at the natural angle of repose of the sediment. A two-foot over-depth allowance is permitted within the dredge area, realizing a maximum pay line of -26 feet MLLW.

#### Site No. 2: City of Eureka Small Boat Basin.

The City of Eureka Small Boat Basin is located off of Waterfront Drive, about 1/8 mile south of its intersection with Commercial Street. The basin provides moorage for many recreational and commercial vessels. A total of approximately 39,000 cubic yards of dredging is proposed to restore the marina to its original design depth of -8.0 feet MLLW.

#### Site No. 3: Commercial Street Dock

The Commercial Street Dock consists of the eastern 250 feet of the Commercial Street Dock and formerly provided moorage for the Coast Guard Cutter "Acushnet" prior to its re-deployment to Alaska. A total of approximately 1,370 cubic yards of dredging is proposed to restore the berth to its original design depth of -18.0 feet MLLW.

#### Site No. 4: Coast Seafoods Company Dock

The Coast Seafoods Company is the owner of the sole private enterprise berthing facility proposed for maintenance dredging. Coast Seafood is engaged in the commercial rearing and processing of cultured Pacific oyster production on Humboldt Bay. The site is located at the foot of "A" Street along the eastern shoreline of the North Bay Channel. The tidelands are leased by Coast Seafoods Company from the City of Eureka. Dredging and spoils disposal of 3,800 cubic yards of material from the moorage area and the unloading slip is proposed. The dredging process would involve cutter suction dredging the moorage and the unloading area to their original design depth of -12 feet MLLW. The current depth around the dock is -10 feet MLLW.

#### Site No. 5: Fisherman's Terminal / Landing Dock

Located at the foot of "C" Street, the Fisherman's Building / Landing Dock had been used in the past for off-loading fish and was associated with Lazio's Restaurant and fish processing plant. Currently, the site is currently undergoing the construction of the Fisherman's Building, a commercial fishing receiving and processing facility that will include a retail fish market. A total of approximately 12,000 cubic yards of dredging is proposed to restore the berth to its original design depth of -14.0 feet MLLW.

#### Site No. 6: "F" Street Floating Docks

Located between the foot of "D" and "F" Streets, the "F" Street Floating Docks are the Eureka Boardwalk's a recreational boating access facility. The docks are currently used as a public access dock from which kayak tours of Humboldt Bay are launched. A total of approximately 1,700 cubic yards of dredging is proposed to restore the berth to the -10.0 feet MLLW depth.

#### Site No. 7: "I" Street Dock

The "I" Street Dock site is situated at the foot of "I" Street. Caito Fisheries currently off-loads and processes catch at this leased facility. Caito Fisheries is the easternmost waterfront-dependant commercial enterprise on the Eureka Inner Reach Channel. As proposed, dredging of the "I" Street Dock would require the removal of an estimated 5,000 cubic yards of sediment from dock frontage to a project depth of -14.0 feet MLLW.

#### Site No. 8: "J" Street Dock

The "J" Street Dock has historically been used for moorage by the California Department of Fish and Game for its off-shore fisheries operations and marine patrol vessel. The moorage is also home to the Eureka City Fire Department's fire boat. A total of approximately 1,400 cubic yards of dredging is proposed to restore the berth to the -12.5 feet MLLW depth to which it was last dredged.

#### Site No. 9: Adorni Recreation Center Dock

The Adorni Recreation Center was constructed at the foot of K Street in 1992 to provide waterfront access and recreational opportunities to local and visiting citizens. The Center includes a small 320-square-foot dock used for launching rowing vessels and other small craft. A total of approximately 1,320 cubic yards of dredging is proposed to restore the berthing area to a depth of -6.0 feet MLLW.

#### Site No. 10: Bonnie Gool Memorial Guest Dock

The Bonnie Gool Memorial Guest Dock is located just east of the Adorni Recreation Center. The facility was constructed to provide public access to vessels and visiting historic ships of interest. A total of approximately 600 cubic yards of dredging is proposed to restore the outer and inner berthing areas to depths of -14.0 feet MLLW and -8.0 feet MLLW, respectively.

#### Site No. 11: Samoa Bridge Launch Ramp

The Samoa Bridge boat launching ramp is located underneath the southern end of the Samoa Bridge. The facility was built in 1985 and since being dredging in 1998, has again silted in. A total of approximately 200 cubic yards of material is proposed to restore the ramp to its original condition.

#### 2. Proposed Method of Dredging and Spoils Disposal

The proposed cutter suction pipeline dredging method involves use of a hollow suction pipe which extends to the bay floor. The pipe contains a rotating cutter head, which can be swept back and forth across the work area. and can be extended into confined areas such as boat slips and under dock faces, etc. As material is loosened by the cutter, it is drawn up the suction pipe to the surface where the suction pipe is joined to a closed flexible pipeline for pumping to the

disposal site. The material drawn up by the suction dredge consists of approximately 20% sediment and 80% bay water.

The slurry pipeline would consist of a 12-inch-diameter fused flexible plastic line. The dredge is a pontoon-mounted crane that lowers a dredge boom, containing a cutter head coupled with a suction pipe, to the bottom. As the cutter head rotates and loosens the bottom material, the material is drawn directly up the suction pipe to the surface and the slurry of sediment and water is then pumped through a floating semi-flexible disposal pipeline, assisted by land based booster pumps for pipeline transfer to the designated disposal area in the surf zone of the Samoa Peninsula.

The line would extend on floats from the dredging location to the State Route 255 (SR 255) right-of-way; SR 255 is the highway that crosses Humboldt Bay between Eureka and the Samoa Peninsula in a series of bridges. The pipeline would be placed along the shoulder of the right-of-way where the highway crosses Woodley and Indian Island at ground level, and placed in the water in the shadows of the bridges where the highway crosses water. In tidal locations, the pipeline would be floated into position at high tide to avoid unnecessary disturbance to the mudflats. Where the line would cross navigable waters, weight would be attached to submerge the line and permit the normal passage of vessels. Buoys and lights would be installed to prevent navigational hazards. A Notice to Mariners is also filed with the U.S. Coast Guard for the duration of the project, advising marine travelers of the location of the pipeline and dredging activities. Once the pipeline reaches the Samoa Peninsula, the line would cross under the Northwestern Pacific Railroad and New Navy Base Road through existing carrier pipes and then continues across the dunes of the North Spit via off-road vehicle trails to the surf zone disposal site. The slurry material is pumped through the pipeline to the disposal site under pressure from several in-line booster pumps.

Once the dredge and crew arrive in Humboldt Bay, mobilization of the spoils line, booster pumps and dredge is expected to take 10 to 15 days. Dredging is scheduled to commence on November 1, 2005 and is expected to be completed by March 31, 2006.

# 3. <u>Proposed Disposal Site</u>

The location of the surf zone disposal site is shown on Exhibit No. 4. The pipeline would discharge the dredged material directly into the surf zone. The disposal site would be posted at several locations and barricades and lighting would be provided and maintained through the project to further inform users of the Peninsula of the temporary project activities occurring there. The sediment to be dredged consists of typically fine-grained material composed of approximately 15% sand, 45% silt, and 40% clays. By comparison, the composition of the beach

adjoining the disposal area is approximately 95% sand content. The applicant anticipates that most of the sub-sand "fines" material will disperse as suspended sediment along the large Eel River basin shelf area offshore. According to the applicant, this shelf area also absorbs an estimated average annual sediment load of approximately 24,698,370 cubic yards discharged by the Eel and Mad River systems. The Eel River represents one of the largest suspended sediment sources in the world. The proposed dredging and dispersal would occur during the winter months, between November and mid-March, when ocean turbidity from the river discharges is at a natural seasonal maximum, to minimize the sedimentation impact on the ocean. The applicant expects that most of the material discharged to the surf zone disposal site will be dispersed offshore as part of cyclical process of erosion of the winter beach. Some of the material that erodes away will likely be deposited again at the site as part of the natural spring beach build up, but the applicant indicates that all of the material should leave the site within two years.

The Samoa Peninsula surf disposal site has been used thrice previously for dredge material disposal. In 1977, the Corps of Engineers disposed of approximately 1.8 million cubic yards of material from the North Bay Channel Deepening project at this location. In 1988, the site was also used for the disposal of 131,000 cubic yards of material from a maintenance dredging project at the Woodley Island Marina. The Coastal Commission approved the maintenance dredging and surf zone disposal under Coastal Development Permit No. 1-87-172. Subsequently in 1998, pursuant to Coastal Development Permit Nos. 1-96-060 and 1-96-061, 226,238 cubic yards of dredged spoils from the City waterfront and the Woodley Island Marina were disposed at the Samoa Peninsula surf disposal site.

The proposed maintenance dredging project is only one of several dredging projects performed or proposed for Humboldt Bay. The proposed maintenance dredging project is separate from the annual Humboldt Bay maintenance dredging project performed by the U.S. Army Corps of Engineers. The proposed maintenance dredging project is also separate from the annual Humboldt Bay Channel maintenance dredging projects also performed by the Corps. Between 1982 and 2004, the Bay Channel maintenance project removed approximately 802,000 cubic yards per year. The material from the Corps dredging projects has been and will continue to be disposed of at the "Humboldt Open Ocean Disposal Site (HOODS).

The entire disposal project except for a portion of the pipeline would be located within the Commission's retained jurisdictional area. The segment of pipeline that extends over the Samoa Peninsula from the bay to the mean high tide line of the surf zone disposal site is located within the coast permit jurisdiction of Humboldt County. The County approved a coastal development permit (CDP-04-37) and a coastal use permit (CUP-04-13) on January 20, 2005. The County permits required avoidance and mitigation of potential disturbance to sensitive rare plants, including the Menzies wallflower

(<u>Erysimum menziesii</u>) and beach layia (<u>Layia carnosa</u>). The coastal development permit was not appealed to the Commission.

#### B. Need for Dredged Material Disposal.

The proposed nearshore disposal of dredged materials will support the continued use of berthing areas along the Eureka waterfront for recreational boaters and commercial fishermen. The Coastal Act contains strong policy language supporting marina uses, including those which require dredging. Section 30220 provides that:

Coastal areas suited for water-oriented recreational activities that cannot readily be provided at inland water areas shall be protected for such uses.

# Section 30224 provides that:

Increased recreational boating use of coastal waters shall be encouraged, in accordance with this division, by developing dry storage areas, increasing public launching facilities, providing additional berthing space in existing harbors, limiting non-water-dependent land uses that congest access corridors and preclude boating support facilities, providing harbors of refuge, and by providing for new boating facilities in natural harbors, new protected water areas, and in areas dredged from dry land.

# Section 30234 provides, in part that:

Facilities serving the commercial fishing and recreational boating industries shall be protected and. where feasible, upgraded...

#### Section 30255 provides that:

Coastal-dependent developments shall have priority over other developments on or near the shoreline. Except as provided elsewhere in this division, coastal-dependent developments shall not be sited in a wetland. When appropriate, coastal-related developments should be accommodated within reasonable proximity to the coastal-dependent uses they support.

The proposed nearshore dredged material disposal project will support the continued use of the Eureka waterfront for these priority uses. Without the dredging and the disposal of the dredged materials, the berthing areas and slips of the marina will continue to fill with sediment and will no longer be usable for mooring vessels. Adequate mooring facilities that do not similarly need maintenance dredging and the disposal of the dredged materials are not available elsewhere within Humboldt Bay. Therefore, the Commission finds that the proposed dredged material disposal project will support recreational boating and

commercial fishing, consistent with Sections 30220, 30224, 30234, and 30255 of the Coastal Act.

# C. Protection of Marine and Estuarine Resources.

As discussed in Project and Site Description Findings Section IV.A above, because the proposed maintenance dredging involves less than 100,000 cubic yards in a twelve-month period, the suction dredging portion of the permit application is exempt from the Coastal Act's permitting requirements. Thus, only the portion of the proposed project involving the installation of the disposal pipeline, and the conveyance to and discharge of the dredged material slurry at the surf zone disposal area, is subject to the Act's permitting requirements. A number of Coastal Act policies address the protection of marine resources from the impacts of dredge spoils fill projects. These policies include, among others, Section 30231 and 30233.

Section 30231 of the Coastal Act provides as follows, in applicable part:

The biological productivity and the quality of coastal waters, streams, wetlands, estuaries, and lakes appropriate to maintain optimum populations of marine organisms and for the protection of human health shall be maintained and, where feasible, restored...

Section 30233(a) provides as follows, in applicable part:

- (a) The diking, filling, or dredging of open coastal waters, wetlands, estuaries, and lakes shall be permitted in accordance with other applicable provisions of this division, where there is no feasible less environmentally damaging alternative, and where feasible mitigation measures have been provided to minimize adverse environmental effects, and shall be limited to the following:
- (1) New or expanded port, energy, and coastal-dependent industrial facilities, including commercial fishing facilities.
- (2) <u>Maintaining existing, or restoring previously dredged, depths in existing</u> navigational channels, turning basins, <u>vessel berthing and mooring areas</u>, and boat launching ramps.
- (3) In wetland areas only, entrance channels for new or expanded boating facilities; and in a degraded wetland, identified by the Department of Fish and Game pursuant to subdivision (b) of Section 30411, for boating facilities if, in conjunction with such boating facilities, a substantial portion of the degraded wetland is

restored and maintained as a biologically productive wetland. The size of the wetland area used for boating facilities, including berthing space, turning basins, necessary navigation channels, and any necessary support service facilities, shall not exceed 25 percent of the degraded wetland.

- (4) In open coastal waters, other than wetlands, including streams, estuaries, and lakes, new or expanded boating facilities and the placement of structural pilings for public recreational piers that provide public access and recreational opportunities.
- (5) Incidental public service purposes, including but not limited to, burying cables and pipes or inspection of piers and maintenance of existing intake and outfall lines.
- (6) Mineral extraction, including sand for restoring beaches, except in environmentally sensitive areas.
- (7) Restoration purposes.
- (8) Nature study, aquaculture, or similar resource dependent activities.
- (b) Dredging and spoils disposal shall be planned and carried out to avoid significant disruption to marine and wildlife habitats and water circulation. Dredge spoils suitable for beach replenishment should be transported for such purposes to appropriate beaches or into suitable long shore current systems.
- (c) In addition to the other provisions of this section, diking, filling, or dredging in existing estuaries and wetlands shall maintain or enhance the functional capacity of the wetland or estuary. [Emphases added.]

The above policies set forth a number of different limitations on what development may be allowed in wetlands and other water bodies within the coastal zone. For analysis purposes, the limitations can be grouped into five general categories or tests. These tests are:

- That the purpose of the fill is for one of eight uses allowed under Section 30233;
- That feasible mitigation measures have been provided to minimize adverse environmental effects;
- That the project has no feasible less environmentally damaging alternative;

- That the biological productivity and functional capacity of the habitat shall be maintained and enhanced where feasible; and
- That dredge spoils suitable for beach replenishment be transported to appropriate beaches or into suitable long shore current systems.

# 1. Permissible Use for Dredge Spoils Disposal in Coastal Waters.

The first test set forth by the Coastal Act policies that address the protection of marine and estuarine resources is that any proposed dredging or fill project must be for an allowable purpose under Section 30233 of the Coastal Act. The proposed project involves maintenance dredging.

Section 30233(a)(2) allows dredging for maintaining existing, or restoring previously dredged depths in existing vessel berthing and mooring areas, and launching ramps. The proposed dredging is limited to areas that have been previously dredged to the same elevation for vessel berthing and mooring. Therefore, the Commission finds that the proposed dredging, and its associated pipeline installation and beach disposal, are consistent with the use limitations of Section 30233, as the dredging is for the maintenance of existing vessel berthing and mooring areas.

# 2. Feasible Mitigation Measures

The second test set forth by Section 30231 and 30233 of the Coastal Act is that feasible mitigation measures have been provided to minimize adverse environmental effects. The Commission must examine the potential impacts of the project on marine and estuarine resources for the non-exempt portions of the project within its jurisdictional area (i.e., excluding the actual suction dredging intake of the materials from the eleven berthing sites and the project portions within the County of Humboldt's permitting jurisdiction.) The project could have five potential adverse effects on such resources, including: (1) increasing turbidity levels during installation and removal of the dredge spoils pipeline; (2) the covering of estuarine intertidal habitat along the route of the dredge spoils pipeline within Humboldt Bay; (3) accidental releases of the dredge spoils slurry and/or pumping-related fuels or lubricants; (4) disturbing marine intertidal habitat at the dredged material disposal site; (5) degrading water quality at the nearshore dredged materials disposal site; and (6) release of hydrogen sulfide. None of these impacts, however, have been determined to be significant.

# (1) <u>Temporary Increase of Turbidity During Installation and Removal of the Dredge Spoils Pipeline.</u>

The proposed installation and removal of the dredge spoils transmission pipeline could disturb sediments within the mudflat areas along the pipeline's route. Increased turbidity

can have deleterious effects on the estuarine habitat, burying eelgrass and other vegetation and disturbing the spawning, feeding, and other activities of fish and other fauna within the water column and along the bay bottom. However, based upon discussions with National Marine Fisheries Service (NOAA Fisheries) staff, the proposed project could minimize turbidity impacts and reduce them to a level of insignificance through: (a) avoiding mudflats to the greatest extent practicable during installation of the dredge disposal line; (b) installing and removing the pipeline during high tide when these sensitive areas are inundated to assure that no vessel propellers, anchors or dredging equipment are dragged over the mudflats.

#### (2) Covering of Habitat Along the Dredge Spoils Pipeline within Humboldt Bay.

The routes of the proposed dredge spoils pipeline through Humboldt Bay provide soft bottom habitat that may be habitat for a variety of benthic organisms. In addition, sparse clumps of eelgrass have materialized sporadically in various berthing areas since the previous dredging was performed. The proposed dredging would remove much of this soft bottom habitat area. However, the impact is not judged to be significant. The loss of the sparse patches currently existing along the pipeline routes will not result in a significant loss of biological productivity. In addition, the pipeline routes can be expected to be re-colonized by the flora and fauna that would be temporarily displaced by the project. These organisms grow in sufficient abundance in areas adjacent to the pipeline routes that a ready source of colonizers exists to replace the organisms that are lost.

# (3) Accidental Release of Dredge Spoils Slurry or Hazardous Materials.

The project entails the transmission of a dredge spoils slurry through a 12-inch diameter flexible pipeline over a distance of 21, 400 feet (4.5 miles), with approximately 6,000 feet of the pipeline crossing overland, and the remaining 15,400 feet traversing the waters of Humboldt Bay. If a rupture should occur in the slurry transmission pipeline, an uncontrolled release of highly turbid water and sediment into environmentally sensitive habitat area within the bay, estuarine or marine wetlands, or upland areas could result with potentially deleterious effects to the plant and animals that utilize these areas as habitat.

Additionally, given the five-month scope of the project, re-fueling or lubricating motorized equipment (i.e., the in-line booster pumps) during the course of maintenance dredging activities is anticipated. An accidental spill of pump fuel or lubricants could adversely affect the environmentally sensitive resources within the project area and the water quality of the adjoining estuarine and marine environments. Special Condition No. 2 requires the applicant to undertake the proposed development consistent with an approved Dredge Spoils Slurry / Hazardous Materials Spill Contingency Plan. This plan is to include pipeline monitoring and leak response provisions and water quality best management practices for the prevention of hazardous material spills and provisions for prompt containment and clean-up of any spills which may inadvertently occur. As

conditioned, potential adverse impacts from accidental dredge spoils slurry or fuel or oil spills to land and marine resources will be reduced to less-than-significant levels.

# (4) <u>Disturbance of Habitat at the Nearshore Disposal Site.</u>

The surf zone disposal site is inhabited primarily by intertidal invertebrate fauna, including motile, burrowing crustaceans and polycheate worms. As noted previously, the site was used for the similar disposal of approximately 226,238 cubic yards of dredged material in 1998. A monitoring study was conducted prior to, during, and just after this last episode of dredged material disposal. The monitoring report stated that prior to the last use of the area for dredged material disposal, in overall species richness, Samoa Beach was intermediate between local semi-protected sandy beaches and sandy beaches exposed to extreme wave conditions. In both pre- and post-discharge periods, the beach fauna was dominated in species composition and numerically by the burrowing isopod Excirolana linguifrons and the burrowing marine worm Euzonus williamsi. abundance of E. linguifrons and E. williamsi appears to have been much less in 1988 than was collected in 1998. The abundance of other sand beach animals was comparable in 1988 and 1998. By the August sampling period in 1998, the level of faunal similarity approximated that found in the pre-discharge sampling. The reappearance of mole crabs (Emerita analoga) in August samples at all three transects and its abundance at the discharge transect indicates that little residual biological effect of dredge spoils could be detected at the discharge point. The material to be discharged from the proposed project would temporarily bury this habitat, until wave and tidal action disperses the material to the offshore shelf. Impacts to the habitat are expected to be similar to the impacts that occurred in 1998. According to the 1998 monitoring study, the habitat area recovered rapidly:

Based on the present study, negative effects of temporary discharge of dredge spoils on intertidal fauna of Samoa Beach were localized and transitory, primarily affecting the abundance of characteristic beach species in the immediate vicinity of the disposal outfall. Within 1 month following the end of disposal operations, most species characteristic of this beach were present at the outfall site, although at reduced densities. Approximately 4 months following termination of beach disposal, populations at the Disposal Site had recovered to levels comparable to those at the Control Site.

Thus, based on the result of the 1998 monitoring report, the impacts of the proposed discharge of dredged material on the surf zone habitat can be expected to be temporary and insignificant.

#### (5) Water Quality at the Nearshore Disposal Site.

Several members of the public have observed that as the sand content of the dredged materials proposed for nearshore ocean disposal are far less than 80%, the materials would not be suitable for nearshore disposal from the standpoint of the protection of water quality (see Exhibit No. 12). In addition, staff from the California Department of Fish and Game (CDFG) and the U.S. Environmental Protection Agency have expressed reservations as to the appropriateness of disposing of the subject dredged materials in the nearshore environment given the high fines content of the dredge spoils as compared to the composition of sediments in proximity to the discharge area. However, the Commission notes that neither the U.S. Army Corps of Engineers or the U.S. Environmental Protection Agency have established a firm prohibition on the nearshore disposal of dredged sediments containing less than 80% sand. To the contrary, as discussed the Coastal Sediment Management Workgroup's 2003 work plan:

It appears that there is a widespread misperception, within both regulatory agencies and the regulated community, that an 80/20 coarse-to-fines 'rule-of-thumb' ratio is an inviolate rule prohibiting the use of dredged material containing more than 20% fines...

The U.S. Army Corps of Engineers (USACE) and U.S. Environmental Protection Agency (EPA) share regulatory responsibility for all discharges of dredged material in waters of the United States under Section 404 of the Clean Water Act (CWA)... Officials with both agencies agree that the 80/20 ratio is a 'rule of thumb' only and that there is no statutory authority for its enforcement nor any known definitive studies or research from which a 20% cut-off was selected. Instead, it represents a national consensus value based on experience that such sediments are unlikely to be contaminated to an extent that would cause environmental damage...

Both agencies also recognize that there is significant flexibility in allowing material with higher percentages of fines provided it meets the requirements of the 404(b)(1) guidelines that dredged material be demonstrated to be compatible with the receiving beach... The 404(b)(1) guidelines allow for site-specific determinations regarding compatibility of dredged-sediment grain sizes with receiving beaches. Dredge or fill discharges must satisfy the requirements of Sec 230.10 of the guidelines which, among other things, mandate that 1) the discharge site must be the least environmentally damaging alternative, 2) discharge will not result in significant degradation of ecosystems based on factual determinations, and 3) that all practicable means must be employed to minimize for adverse environmental impacts.

Thus, provided that the sediments are shown to have contaminants in concentrations that would result in significant ecological degradation, that no other environmentally less damaging alternative disposal site exists, and that all practicable mitigation measures

have been employed, unconfined aquatic disposal of dredged materials into the nearshore environment, even for purposes of beach nourishment, may be authorized. Both the CDFG and USEPA have stated that, notwithstanding their concerns over the high fines content of the bay sediments, these agencies will not formally object to the proposed nearshore disposal of the dredged materials being undertaken under the USACE's existing FCWA Section 404 permit. However, both agencies have also stated that the applicant must investigate other disposal options, including but not limited to offshore disposal at the HOODS facility or landfill disposal, for any future maintenance dredging to be conducted under subsequent Corps authorizations.

With respect to potential impacts to marine organisms from chemical contaminants within the dredged materials, Pacific Affiliates submitted on behalf of the Harbor District a Sediment Sampling Plan that was approved by the EPA and the Army Corps of Engineers on December 7, 2004. Analytical requirements for this project were recommended by the EPA's Dredging and Sediment Management Team and the U.S. Army Corps of Engineers. The guidelines were set forth in the Inland Testing Manual for Tier II Sediment Physical and Chemical evaluation. The sampling was conformed to the strict guidelines set by the EPA. The composite sampling methods were instructed by the EPA and were followed and recorded in the Sediment Analysis Plan.

Between January 19 and February 7, 2005 core samples were collected from 11 sites along the Eureka waterfront and from the beach disposal site. Representative samples were collected at the proposed dredge project depths for each site. Samples were submitted to ToxScan Labs for the required analysis. The analysis included testing for grain size, percent solids, total mercury, total organic carbon (TOC), total petroleum hydrocarbons (TPH), total volatile solids (TVS), metals, semi-volatile organics, polychlorinated biphenyls (PCBs) and speciated butyltins in sediment. The results from the 2005 testing were compared to the testing results conducted between August 6<sup>th</sup> and August 13<sup>th</sup>, 1996 in order to determine changes in the quality of the sediment over time.

Seven core samples from four of the Eureka waterfront sites were combined in the 2005 testing to form one composite sample (as instructed by the EPA), while in 1996 two of the sites were tested individually (J Street and Bonnie Gool Guest Dock) and the remaining two sites were not tested (Adorni Dock and the Samoa Bridge Launch Ramp). I street Dock and Coast Seafoods Dock were only tested in 2005.

Five sampling sites along the Eureka waterfront and Woodley Island Marina were identical in sampling locations in 1996 and 2005. Therefore, these sites were chosen for comparison. The result indicated that most sampled compound concentrations have decreased over time in those locations. Mercury concentrations decreased at all marina sampling locations. Metal and TVS concentrations also decreased at all sampling locations except at F Street Dock where no change was noted. TPH concentration decreased at four of the sites. Testing results for TOC showed decrease or no change in concentrations since 1996. At all sampling sites except for Commercial Street Dock, the

concentrations of most semi-volatile organic compounds decreased. PCBs were not detected at any site except at Landing Dock where Arcolor 1254 was found at levels of 0.016 mg/kg. Speciated butyltins group were detected at Coast Seafoods Dock and the I Street Dock at levels of less than  $10 \, \mu g/kg$ .

Army Corps of Engineers staff has not raised any concerns in regards to the suitability of the dredge spoils for near shore ocean disposal. In the Army Corps of Engineers request for formal Section 7 consultation from the National Marine Fisheries dated February 8, 2005 it was stated that, "Water quality impacts associated with the disposal of dredged material at the spit would be short-term, localized and minor. The City of Eureka sites contained low concentration of Cr and Nickel in the range of 50-60 mg/kg. The Army Corps also stated that, "Concentration of PAH were not significantly elevated. PCBs were not detectable at a detection of 0.01 mg/kg. Chloro pesticides have not been tested in the berth, given the paucity of agriculture in the area and the fact that previous testing (detection limit  $2\mu g/kg$ ) in the Federal channel did not detect pesticides; there is no reason to expect significant presence. The Federal channel maintenance material characterization of 1995 through 2001 was similar in character and did not detect Dioxin." Based upon the testing results of 2005, no significant change was noticed in the quality of the sediment at the dredging sites.

In their review of the chemical analysis of the sediments proposed for dredging (see Exhibit No. 10), staff from the U.S Environmental Protection Agency found, with respect to the dredged materials originating from 10 of 11 of the City's dredging areas:

The sediment quality (in terms of chemical contaminant levels) at most of the facilities tested is similar to that found in 1996... Sediments proposed to be dredged from all of the facilities evaluated in the April 1, 2005 Pacific Affiliates Sediment Sampling Analysis report... are suitable for unconfined aquatic disposal without further testing.

However, in their review of the chemical assessments of materials sampled from the eleven proposed dredging sites (see Exhibit No. 8), both the staff of the U.S. Environmental Protection Agency's (USEPA) Dredging and Sediment Management Team and Jack Gregg PhD, of the Commission's Water Quality Unit (see below) have found that the sediments at Dredging Site No. 4 – Coast Seafoods Company Dock have elevated levels of Polycyclic Aromatic Hydrocarbons (PAHs) and polychlorinated biphenyls (PCBs) which render the materials inappropriate for ocean disposal. Since benthic organisms would be exposed to these contaminants through uptake from pores, body walls, respiratory surfaces, and through ingestion, direct impacts to these organisms could result if the materials were disposed of into the nearshore environment. To prevent potential impacts to coastal water quality and the direct and cumulative impacts to biological resources that could result from exposure to and bioaccumulation of these toxic compounds, the Commission attaches Special Condition No. 9. Special Condition

No. 9 prohibits the ocean disposal of dredged materials originating from Dredging Area No. 4 – Coast Seafoods Company Dock.

As part of their FCWA Section 401 certification for the proposed maintenance dredging project (see Exhibit No. 10), the North Coast Regional Water Quality Control Board found, provided specific conditions were applied to the maintenance program, the proposed dredging would comply with the applicable provisions of sections 301 ("Effluent Limitations"), 302 ("Water Quality Related Effluent Limitations"), 303 ("Water Quality Standards and Implementation Plans"), 306 ("National Standards of Performance"), and 307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act [33 USC Subsection 1341 (a)(1)], and with other applicable requirements of State law. The attached conditions require that:

- Best Management Practices be employed for turbidity control, including the use
  of a cutter-suction dredge and ocean disposal within the surf zone during the time
  of year when background turbidity levels are expected to be high and dissipation
  of the spoils slurry is expected to be rapid.
- Sediment from Coast Seafood's dock area not be dredged and discharged to surface waters without prior written approval from the USEPA and Regional Water Board.
- No debris, soil, silt, sand, bark, slash, sawdust, rubbish, cement or concrete washings, oil or petroleum products, or other organic or earthen material from any construction or associated activity of whatever nature, other than that authorized by this permit, be allowed to enter into or be placed where it may be washed by rainfall into waters of the State. When operations are completed, any excess material or debris, including concrete washings, shall be removed from the work area and disposed of properly. No rubbish shall be deposited within 150 feet of the high water mark of any stream.
- Fueling, lubrication, maintenance, operation, and storage of vehicles and equipment not result in a discharge or a threatened discharge to waters of the United States. At no time shall the applicant use any vehicle or equipment which leaks any substance that may impact water quality. Staging and storage areas for vehicles and equipment must be located outside of waters of the United States.
- Project activities comply with provisions in the North Coast Region Water Quality Control Plan (Basin Plan).
- Creation of pollution, contamination, or nuisance, as defined by Section 13050 of the California Water Code, is prohibited.

- The suspended sediment load of surface waters in Humboldt Bay or the Pacific Ocean not be altered in such a manner as to cause a nuisance or adversely affect beneficial uses.
- Dredging and sediment disposal activities not cause the turbidity of Humboldt Bay to be increased more than 20 percent above naturally occurring background levels.
- The project site be subject to visitation and assessments by Regional Water Board staff to document compliance with the certification.
- A copy of this permit be provided to the Contractor and all subcontractors conducting the work, and be in their possession at the work site.
- Aerial photos of the surf zone disposal location and the shoreline from the mouth of the Eel River to the mouth of the Mad River be taken before, during, and after the project to provide visual evidence of the effects of the discharge and the natural ocean water conditions along the shoreline. Aerial photos of this stretch of shoreline shall be taken within one week prior to discharge, within two weeks after discharge begins, approximately mid way through the project and within two weeks after the discharge ends. A report containing the aerial photos shall be submitted to the Regional Board within 30 days of the end of the project.
- If, at any time, an unauthorized discharge to surface waters occurs, or any water quality problem arises, the project be cease immediately and the Regional Water Board be notified promptly.

Jack Gregg PhD of the Commission's Water Quality Unit technical staff has also reviewed the results of the sediment sampling taken in February-March 2005 (see Exhibit No. 11). Based upon his review of the analyses, Dr Gregg found as follows:

The Sampling and Analysis Plan was approved by the Corps of Engineers and the USEPA. The number of samples and compositing scheme are comparable to maintenance dredging projects in San Francisco Bay and ports of Los Angeles and Long Beach. The suite of analytes and detection limits were comparable to sediment characterization in other parts of the state, although it is becoming more common to analyze Polychlorinated Biphenyls (PCBs) congeners instead of Arochlor mixtures, providing a basis for any required additional testing. The levels of organic chemicals detected at most of the dredging sites are fairly common in harbors and below the levels where environmental effects would be expected...<sup>1</sup>

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In a footnote within his review memo, Dr. Gregg observed, "Most of the detections of Polycyclic Aromatic Hydrocarbons (PAHs) and PCBs are below the Effects Range Low of the NOAA National Status and Trends Program Sediment Quality Guidelines. PAHs

While dispersive dredged material disposal sites lead to uncertainty in the ultimate fate and transport of dredged materials, they also can significantly reduce the exposure of aquatic organisms and humans to residual amounts of pollutants. The low levels of PAHs, PCBs and organic tins in the material to be dredged will be mixed with bay water (80% water to 20% sediment) during the dredging process and moved out of the bay waters by the suction dredge. While there is potential for exposure with a beach disposal site, the reason that disposal has been allowed at this site to date is the high energy environment of an open ocean beach on the Eureka coastline. Fine grained sediments will immediately be separated from sandy material and moved with prevailing currents. While the fine grained material may move as a plume in the nearshore environment initially, it will rapidly disperse out of the surfzone and will continually be diluted with cleaner water.

As regards the contaminant levels in the sediments at Dredging Site No. 4 – Coast Seafoods Company Dock, Dr. Gregg states:

The exception is the Coast Seafoods site where levels of PCBs reported in the Sediment Sampling Analysis dated April 1, 2005 are high enough that USEPA staff have recommended that the material not be discharged to the Samoa Beach disposal site without further study of potential biological impacts.

Dr. Gregg has indicated that he concurs with the findings of the USEPA staff and similarly supports the recommendation to prohibit uncontained aquatic disposal of sediments from the Coast Seafoods Company Dock as set forth in Special Condition No. 9.

With respect to potential impacts to human health from the discharging of sediments tainted with specific contaminants of federal and state concern into the nearshore environment, particularly as regards water-related recreational activities such as swimming and surfing, Dr. Gregg found:

Just as it is not prudent to swim near flowing storm drains, the highest risk to swimmers and surfers at the disposal site would be close to the end of the disposal pipe. Based on the chemistry data provided it is highly unlikely that an individual could be exposed to significant amounts of pollutants from the dredged material once it has been mixed with water both at the dredging and disposal sites...

One of the comment letters presented to the Coastal Commissioners on the day of the hearing for this project<sup>2</sup> made several comparisons of levels of Polycyclic Aromatic Hydrocarbons (PAHs) to regulatory thresholds that are not appropriate for this exposure scenario. Specifically the letter compared the levels of benzo(a)pyrene to both Preliminary Remediation Goals and to No Significant Risk Levels. Preliminary Remediation Goals (PRGs) are published by the USEPA Region IX and are risk-based concentrations use for site "screening". While they could be used as initial cleanup goals, they are not meant to be regulatory cleanup standards. The PRGs are levels in soil considered to be protective for humans over a lifetime of exposure. They are not appropriate for comparison to the Humboldt dredging project conditions where humans will not be exposed to the in-situ sediments concentrations of benzo(a)pyrene and where exposure to the much diluted concentrations in the sediment/water slurry will be for a relative short period of time. Even the most exposed humans (probably surfers) would only be exposed to the diluted dredged material a few hours per day over the course of the project, much different than the exposure considered in developing the PRGs.

This comment letter also compared the benzo(a)pyrene levels to the No Significant Risk Level from 22 California Code Regulations Section 12705(c) (Safe Drinking Water and Toxic Enforcement Act of 1986 also known as Proposition 65). Again this value is set to express the risk of exposure to the chemical over a lifetime of exposure.

In his conclusion, Dr, Gregg stated:

Based on the sediment chemistry and toxicity data provided I recommend that the Coastal Commission find that this project, as conditioned, will not significantly impact coastal resources.

Notwithstanding the conclusions reached by the USEPA, North Coast Regional Water Quality Control Board, and Commission's water quality unit staff regarding the low risk of impacts to coastal resources and human health associated with the proposed nearshore disposal of the dredged bay sediments, the full effects of the beach disposal of dredged materials with physical and chemical compositions differing from that of the receiving beach and sub-tidal area remain, to some degree, unknown. Of particular concern is the lack of monitoring that has been performed outside of the immediate discharge area with respect to the persistence of the dredged materials and any effects such lingering deposits

Letter from Law Offices of Sharon Duggan dated August 11, 2005 (see Exhibit No. 12).

may have on marine biological resources. This concern appears repeatedly in the various comments from the reviewing agencies:

EPA continues to object to surfzone placement of material from any of these facilities based on the inappropriately fine-grained nature of the sediments. On this basis, we expect to object to any extension or reissuance of the existing permit once it expires, particularly given the availability of the Humboldt Open Ocean Disposal Site (HOODS) just offshore of Humboldt Harbor. We strongly urge the City of Eureka and the Humboldt Bay Harbor, Recreation and Conservation District to begin taking appropriate steps now, financial and otherwise, to plan to use HOODS or other alternatives to nearshore discharge of fine grained sediment by the time maintenance dredging of these facilities is needed again. – Brian Ross, USEPA

The dredge spoils that will be discharged in this project are 85% silt and clay an only 15% sand, yet the receiving beach is 95% sand. The Department does not believe that a beach composed of 95% sand is suitable for placement of dredge spoils with 85% fines due to the potential adverse effects on benthic habitat, fish, and wildlife. Therefore, the Department recommends that the nearshore subtidal habitat be monitored, in addition to the intertidal habitat, for substrate changes. Aerial photography and water quality monitoring for suspended solids would be helpful to show where the plume is traveling. In addition, the Department recommends that the applicants' (*sic*) begin planning for other methods of disposal for future dredging events. The Humboldt Open Ocean Disposal Site (HOODS) was designed and approved to accept fineOgrain sediments and has the capacity to received these sediments. Upland disposal is another option which could be pursued. – Vicky Frey, CDFG

CDF&G staff and USEPA staff have indicated that the applicants may proceed with the project, including shoreline disposal, but that the sediment may not be suitable for beach disposal in the future mainly due to the small grain size and the lack of studies to evaluate the effects of disposal on the near shore sea floor habitat. These agencies have stated that they will object to any future projects involving shoreline disposal. CDF&G staff suggested that the applicants should either begin working now on identifying alternative methods for sediment disposal from future projects, or else plan to use the designated Humboldt Open Ocean Disposal Site in the future. This may be the last opportunity for the applicants to thoroughly study the effects of this type of disposal. If the applicants intend to pursue shoreline disposal for future projects, Regional Water Board staff recommend that the applicants work with USEPA and CDF&G to develop a plan to monitor and study the discharge and near

shore subtidal habitat during implementation of this project. – Dean Pratt, NCRWQCB

To monitor the effects of the dredged materials on coastal resources, the applicant has proposed to perform pre- and post-disposal aerial photography of the area between the Eel and Mad Rivers, in conformance with the requirements of by the North Coast Regional Water Quality Control Board as set forth in their FCWA Section 401 certification. However, given the difficulties commonly encountered with interpretation of aerial photographs of aquatic areas, especially when the intent is to track the extent and movement of exotic materials which may closely resemble in-situ shoreline materials, the Commission does not believe that monitoring the dispersal of dredged materials solely by photogrammetry would constitute an adequate monitoring program. Accordingly, the Commission attaches Special Condition No. 1. Special Condition No. 1 requires the applicant, prior to issuance of the coastal development permit for the maintenance dredging to submit, for the Executive Director's review and approval, a comprehensive monitoring plan that, in addition to aerial photography of the disposal site vicinity, includes bathymetric surveying, sediment core sampling, and measurements of turbidity generated by the release of the sediments into ocean waters. The plan is also to identify remediative measures to be taken if the dredged materials persist or accumulate near the discharge area or if the turbidity exceeds 20% of naturally occurring background levels

# Project Impacts on Terrestrial Biological Resources

The Commission notes that with regard to potential biological impacts to the land based portion of the project, the placement, use, and removal of the portion of the pipeline that would cross the Samoa Peninsula could have potential impacts on certain rare or endangered species. However, except for the area below the mean high tide line, the segment of the pipeline crossing the Samoa Peninsula is entirely within the coastal permit jurisdiction of the County of Humboldt. The County has approved a separate coastal development permit for this portion of the overall project. Therefore, the "project" before the Commission does not include the portion of the overall project that crosses the Samoa Peninsula.

Nonetheless, the County and the lead agency determined that the environmental effects of the pipeline on the terrestrial habitat of the Samoa Peninsula would not be significant. The pipeline would cross through areas where beach layia (<u>Layia carnosa</u>) is growing. Beach layia is a federally listed endangered species. In addition, the Western snowy plover (<u>Charadrius alexandrinus nivosus</u>) has been known to nest in the spring along portions of the upper beach areas of the Samoa Peninsula. However, the project as proposed would minimize impacts to these species and reduce them to a level of insignificance. The pipeline would be routed along old trails to avoid the beach layia and would be placed by hand in sensitive areas to minimize disturbance from construction. In addition, a qualified biologist would be present before and during laying of the pipeline to identify and evaluate the status of the beach layia populations in order to avoid the

plants and minimize impacts to beach layia seedlings. A field survey and biological assessment of snowy plovers conducted by Mad River Biologists concluded that the proposed outfall area was not suitable habitat for the Western Snowy Plover given the narrow band of possible nesting area along the top of the wave slope and presence of debris and predators and "For these reasons, placement and removal of the pipeline should have no significant effect on the Western Snowy Plover." The County approved the coastal development permit with conditions requiring that the proposed mitigation measures to protect beach layia be implemented by the applicants.

# (6) <u>Introduction of Hydrogen Sulfide</u>.

A final potential impact of the project involves the introduction of hydrogen sulfide during dredging extraction. Hydrogen sulfide (H<sub>2</sub>S) is a metabolic byproduct of the anaerobic breakdown of organic material within bay sediments. Hydrogen sulfide is an extremely toxic and irritating gas. Hydrogen sulfide is regulated by Occupational Safety and Hazards Administration (OSHA) and has a permissible exposure limit of 20 parts per million (ppm) ceiling concentration and a peak exposure limit of 50 (ppm) for no more than 10 minutes if no other measurable exposure occurs. Inhalation of concentrations of 500-1000 (ppm) will cause rapid unconsciousness and death through respiratory paralysis and asphyxiation. The human health risks of exposure to H<sub>2</sub>S are highest in enclosed spaces rather than in an open-air setting. Toxicity of H<sub>2</sub>S to plants and animals varies greatly by organism.

The human olfactory mechanism is capable of detecting the presence of hydrogen sulfide gas in quantities as low as two parts per billion (ppb). Levels of hydrogen sulfide detected in the immediate proximity of dredge discharge lines used at the Santa Cruz Harbor, similar to that proposed by the District and City, have been measured at less than eight ppb. This concentration is far below the acceptable level of concentration determined safe for an individual working eight hours per day under constant exposure to hydrogen sulfide gas.

The use of a suction dredging, in place of other methodologies, such as hopper, dragline, or clam-shell dredging, would minimize the amount of sediment disturbance and introduction of  $H_2S$  into bay waters. The concentrations of  $H_2S$  within the dredged materials would be further diluted by the introduction of seawater to create the dredge spoils slurry and by the initial mixing with ocean waters upon their discharge. No further mitigation would be required to reduce the potentially significant adverse impacts of hydrogen sulfide exposure of humans, and fish and wildlife to less than significant levels.

#### Conclusion

Therefore, the Commission finds that the development as proposed and conditioned includes mitigation measures, where feasible, to minimize significant adverse environmental effects of the project consistent with Section 30233.

# 3. <u>Project Alternatives.</u>

The third test set forth by the Commission's dredging and fill policies is that the proposed dredging or fill project must have no feasible less environmentally damaging alternative. Although the Commission determines that the proposed project will have no significant impacts, the Commission has also considered the various identified alternatives, and determines that none of them provides a feasible less environmentally damaging alternative. A total of four possible alternatives have been identified, including: (a) disposing of the dredged material at the offshore HOODS disposal site; (b) disposing of the dredged material at the upland "Superbow1" disposal site; (c) extending the spoils slurry outfall offshore to the closure depth; and (d) the "no project" alternative.

### a. <u>Disposal at Offshore HOODS Disposal Site.</u>

As noted previously, the federal government has designated an offshore disposal site for dredged material known as the "HOODS" disposal site. The site is between three and four miles offshore of Humboldt Bay, beyond sovereign state lands in federal waters. The Commission concurred with a Coastal Zone Management Act consistency determination made by the U.S. Environmental Protection Agency for designation of the site in 1995 (CD-72-95). Over 800,000 cubic yards of dredged material is disposed of annually at the site, mostly from maintenance dredging of Humboldt Bay navigational channels performed by the U.S. Army Corps of Engineers. A possible alternative to the proposed project that would avoid even the temporary impacts on habitat at the surf zone disposal site would be to dispose of the dredged material at the HOODS site. During the 1998 maintenance dredging project three state and federal agencies commented to the Corps of Engineers in response to the Corps' public notice of its consideration of federal permits for the project that this alternative should be used to avoid impacts to habitat at the surf disposal zone. The Commission acknowledged the concerns raised by the commenting agencies, but found that, overall, the impacts of the project as proposed would be less than the alternative of using the offshore HOODS disposal site.

The primary reason the Harbor District and the City of Eureka chose not to propose disposal of the dredged material from the maintenance dredging proposed under coastal permit applications 1-96-60 and 1-96-61 at the HOODS site is the comparative costs of these options. Based on cost estimates provided to the HBHRCD by dredging companies, the proposed project with surf zone disposal would cost approximately \$2 million. The cost of disposing of the material at the HOODS site would nearly double the total cost to \$3.8 million.

Whether or not the extra cost makes use of the HOODS site infeasible, for a variety of reasons the alternative is not environmentally less damaging. As explained by the applicants' consultants in response to the 1998 reviewing agency

comments, use of the HOODS disposal site would actually increase turbidity impacts in and around the dredging areas.

Turbidity would be increased near the dredging area because a different method of transferring the dredged material to the disposal site would have to be used. Given the three to four mile distance to the HOODS site across open ocean waters, a pipeline obviously cannot be used to discharge dredged material at the HOODS site and the use of vessels must be relied upon.

Use of a suction dredged is required given the close quarters within the mooring areas where the dredge must operate. The water content of the material dredged with the suction dredge approaches 80%. While the high proportion of water in the slurry material does not present a problem for transferring the dredged material to the disposal site through a contained pipelined, the high water volume does present a problem for transferring the dredged material by barge or hopper dredger to an offshore disposal site. When using hoppers or barged to transport the dredged material, a large proportion of the 80% water volume of the dredged material must be decanted and the resulting water discharged during vessel loading to accommodate the solids (20%). This decanting would take place in or near the dredge area to allow for efficient filling of the vessels. Significant turbidity can be expected to result from the discharge of the supernatant water, which contains significant amounts of sediment. In fine-grained material (only approximately 15% is coarse sandy material), the degree of turbidity will be greater than if the material had a more sandy composition.

The dredging areas are located along the shallower margins of the bay which include sensitive shallow water habitats, including extensive eelgrass beds. The eelgrass beds provide important spawning, rearing, feeding, and resting habitat for numerous fish and other estuarine species. In addition, the shallow waters of Humboldt and Arcata Bays support extensive commercial shellfish operations that can be adversely affected by high turbidity. Given the more sensitive nature of the estuarine habitat within Humboldt Bay as compared to the ocean surf zone, the overall impact of use of the HOODS site is much greater than the impacts of the project as proposed.

The Commission notes that the HOODS site is well suited to the separate channel dredging projects performed by the CORPS, as the turbidity impacts are proportionately less. The content of the material dredged from the channels in those projects is quite sandy and the channel work areas are generally well flushed. Both of these factors reduce the turbidity impact of the CORPS channel dredging projects.

#### b. <u>Disposal at "Superbowl" Disposal Site.</u>

Dredged materials have previously been deposited at an upland disposal site on the Samoa Peninsula known as the "Superbowl" site (see Exhibit No. 3), adjacent to the Old Eureka Airport/Samoa Dragstrip. The 60-acre site was used for disposal of sediments in the North Bay Channel Improvement Project of 1978-79 and for other projects in the late 1970s. The site reportedly has capacity available, and the dredged material could be piped to the disposal site, thus avoiding turbidity impacts at the dredge site as the proposed project would.

However, since the Superbowl site was last used, portions of the site have transformed into freshwater marsh habitat and sensitive plant species have colonized portions of the site. These areas are considered to be environmentally sensitive habitat areas, and are protected by the Coastal Act. Use of the site for the proposed project would likely result in some permanent disturbance of the habitat. As the habitat values at the surf zone disposal site are less significant, and the impacts of the use of the surf zone disposal site would be temporary, the Commission finds that the alternative of using the Superbowl for dredge disposal is not an environmentally less damaging alternative.

With respect to other past disposal sites, the former L-P upland disposal site, now owned by the Harbor District, is located southwest of the intersection of State Route 255 and New Navy Base Road has been used for numerous maintenance dredging operations at L-P's Samoa facilities and other North Bay dredging projects. The North Coast Regional Water Quality Control Board (NCRWQCB) rescinded the waste discharge requirements for this site on June 28, 2001. The District has no plans to excavate or use this property for significant spoils disposal in the future as the site has a limited capacity of approximately 120,000 cubic yards (yd<sup>3</sup>) and would only be suitable for disposal of dredge spoils from smaller scale berthing dock areas, such as from the small waterways and slips within the King Salmon area. No other upland properties exist within a reasonable distance from the dredging sites that would have adequate capacity to receive the volume of dredge materials that would originate from the City and District docking and marina facilities, would not result in greater environmental impacts to coastal resources, or have owners willing to either sell or allow the District and City to conduct landfill dredge material disposal on their properties.

# c. <u>Deepwater Extension of Spoils Pipeline Outfall.</u>

Another potential project alternative would entail the extension of the dredged materials pipeline outfall from its proposed location within the upper subtidal ocean waters to the "depth of closure," the depth of water at which sediments will be transported to deposition in offshore depths rather than to be cyclically returned onto the beach and/or transported laterally along the shoreline by longshore currents. For Northern California, the depth of closure has been estimated to be an approximately 40-foot depth of water.

The option to extend the discharge line further out beyond the breaker zone to further ensure littoral cell dispersal of the sediments would be difficult to implement due to the added complications associated with in maintaining the pipeline and the cost associated with constructing a temporary structure to support the pipeline. The wintertime surf zone represents a high-energy environment that makes it very difficult to maintain a pipeline in place. The proposed outfall location that has historically been used on the beach slope itself requires continual maintenance during disposal operations due to the beach erosion that occurs during high energy storms.

The costs of constructing a temporary structure to hold the pipeline in place and off of the ocean surface would be significant and would be likely more environmentally damaging. Such a structure in the surf zone would require ongoing monitoring, maintenance, and repair that would be expose dredging personnel to hazardous surf conditions.

In addition, such temporary discharge pipeline extensions have been unsuccessfully attempted in the past. During work at the Louisiana-Pacific Corporation's Samoa Pulp Mill to extend the permanent outfall line when a temporary flexible pipeline was being used to convey process effluent, L/P attempted to place the pipeline, beyond the surf zone. Despite the pipeline being substantially larger in diameter and longer then the pipeline being used for the maintenance dredging project, and arguably more stable, the plastic pipeline became repeatedly twisted and kinked in the surf surge, resulting in a significant losses to its discharge capacity. As a result, the effort was subsequently aborted.

Moreover, based on biological and physical monitoring of the Samoa Beach disposal site conducted between 1998 and 2002 following the last dredging episode, the mixing and dispersal of the fine materials was determined to be effectively accomplished by the deposition of the material in the near shore zone. Because of these turbulent conditions, the fine particles remain in suspension and do not settle in the nearshore surf zone. During the winter storm season, the wave energy prism is very wide and extends beyond the surf zone to deep waters. Once the materials reach deeper waters, turbulent conditions are reduced and the fine particles are allowed to settle out of suspension within the water column. Photographs taken during the 1998 episode indicate that significant sorting of the spoils occurs, with the larger, heavier sand fragments settle in the near shore zone and fine material being transported offshore. Thus, extension of the spoils pipeline outfall to deeper water areas is not an environmentally less damaging feasible alternative.

#### d. The No Project Alternative.

The no project alternative would entail that no maintenance dredging of the accumulated sediments within the Woodley Island Marina be undertaken. With no dredging, there would be no impacts from dredging and no impacts from disposal. However, without maintenance dredging, the berthing areas would eventually silt in to the point that they could no longer be used for commercial fishing vessels or recreational boating, except by the shallowest draft vessels. The berthing areas would likely be forced to close, and the boaters who currently use the site would be displaced. As there are limited mooring facilities in Humboldt Bay, many of these users would be forced to leave this region of the coast. Such a result would be contrary to policies of the Coastal Act. As discussed previously, commercial fishing and recreational boating are given high priority under the Coastal Act and the Coastal Act policies call for the protection of these uses and the facilities needed to continue these uses. Therefore, the Commission finds that the no project alternative is not a feasible less environmentally damaging alternative.

#### 4. Maintenance and Enhancement of Estuarine and Marine Habitat Values

The fourth general limitation set by Sections 30231 and 30233 on dredging and fill projects is that any proposed dredging or fill project must maintain and enhance the biological capacity of the habitat, where feasible.

As discussed above, although the project as proposed will have adverse impacts on habitat at both the dredging and disposal sites, the impacts will not be significant. By avoiding significant impacts to coastal resources, the project will maintain the biological productivity and functional capacity of the habitat. However, there will be a continuing need for maintenance dredging of the bay in the future. Based on past dredging patterns, maintenance dredging will likely be required at roughly ten year intervals. Therefore, the Commission finds that it is necessary for the impacts of the proposed surf disposal to be monitored to ensure that if unexpected impacts were to occur, the results could be used during the evaluation of future dredging projects by the Commission and other agencies. Consideration of the information provided by a monitoring report would help ensure that such future projects are conducted in a manner that will maintain and enhance the biological capacity of the habitat.

The Commission notes that it has relied, in part, on information provided by the 1998 monitoring report prepared after the last episode of surf zone dredge material disposal in its evaluation of the current permit application. Accordingly, the Commission attaches Special Condition No. 1 which requires that prior to issuance of the permit, the applicant submit a surf zone disposal monitoring plan for the review and approval of the Executive Director. The plan must provide for monitoring over a five year period of: (1) the pattern and rate of dispersal of material deposited at the site (2) sediment characteristics at the disposal site and at the control site; (3) the species composition and abundance of intertidal invertebrates in areas directly affected by the disposal of dredge spoils and at a

control site near the disposal area over a three year period; and (4) the effects of the surf zone disposal on fisheries.

As conditioned, the Commission finds that the proposed project is consistent with the requirements of Sections 30231 and 30233 of the Coastal Act that any proposed dredging or fill project must maintain and enhance the biological productivity and functional capacity of the habitat, where feasible.

# 5. <u>Use of Dredged Material for Beach Replenishment</u>

The fifth test set forth above is that dredge spoils suitable for beach replenishment be transported to appropriate beaches or into suitable long shore current systems. One of the concerns of any dredging project is the loss of sand to the particular longshore current cell and the possible resulting downcoast erosion. When possible, sandy dredge spoils should be disposed in a location that will ensure downcoast disposal.

The sediment to be dredged consists of typically fine-grained material composed of approximately 15% sand, 45% silt, and 40% clays. Only the sand portion of the material is suitable for beach nourishment, and given the small component of sand in the dredged material, the applicants do not claim that the project can be characterized as a beach nourishment project. Nevertheless, given the proposed location and timing the project to be conducted during the winter months when a high background level of turbidity exists along the open ocean shoreline, the proposed disposal site is an appropriate beach for beach replenishment. As the site is within the surf zone, the material will be discharged where the sand component may enter the long shore current system, although the beach in question is not in a sand-starved condition.

Furthermore, the site is sufficiently far from the mouth of Humboldt Bay that discharges at the site would not contribute to a mounding or shoaling problem within a navigational area. Therefore, the Commission finds that the small component of the material to be dredged that is suitable for beach nourishment will be transported to an appropriate beach consistent with the sand supply requirements of Section 30233 of the Coastal Act.

#### D. Public Access.

Coastal Act Section 30210 requires that maximum public access opportunities be provided when consistent with public safety, private property rights, and natural resource protection. Coastal Act Section 30211 requires that development not interfere with the public's right of access to the sea where acquired through use. Coastal Act Section 30212 requires that public access from the nearest public roadway to the shoreline and along the coast be provided in new development projects, except in certain instances, as when adequate access exists nearby. In applying Sections 30210, 30211, and 30212, the Commission is limited by the need to show that any denial of a permit application based on those sections, or any decision to grant a permit subject to special conditions requiring

public access, is necessary to avoid or offset a project's adverse impact on existing or potential public access.

The objectives of the project to ensure that vessels can continue to use berthing areas along the Eureka waterfront for mooring will help maintain recreational boating as a form of public access to Humboldt Bay and the ocean. In addition, as the project will have a duration of only a few months, as all portions of the disposal pipeline and the dredging area itself will be sufficiently marked to warn boaters of its presence, and all portions of the line crossing navigational channels will be submerged to the bottom where they will not block vessel passage, the project will have no significant effect on vessel access during project construction. Similarly, as the portion of the pipeline that crosses the Samoa Peninsula and the disposal site will also be marked and lighted during the several months of the winter that the project will be undertaken and will not preclude passage up and down the peninsula by public access users, the project will have no significant impact on public access use of the Samoa Peninsula. Furthermore, as the dredging will only maintain the existing mooring and maneuvering areas, the proposed project will not create new vessel mooring opportunities that could draw more people to the waterfront and create more demand for public access.

Therefore, for the reasons indicated above, the proposed project will not have any significant adverse effect on public access. The Commission finds that the proposed project, which does not include any new provision for shoreline public access, is consistent with the public access policies of the Coastal Act.

# E. <u>Visual Resources</u>.

Section 30251 of the Coastal Act requires that the scenic and visual qualities of coastal areas shall be considered and protected as a resource of public importance, and requires in applicable part that permitted development be sited and designed to protect views to and along the ocean and scenic coastal areas, to minimize the alteration of natural land forms, and to be visually compatible with the character of surrounding areas. Furthermore, Section 30240(b) of the Coastal Act states that development in areas adjacent to parks and recreation areas shall be sited and designed to prevent impacts which would significantly degrade those areas, and shall be compatible with the continuance of those recreation areas.

Dredge spoils disposal operations present a temporary intrusion into visual resource areas and occur generally along the disposal line within Humboldt Bay, or in proximity to the spoils disposal outfall on the North Spit of the Samoa Peninsula. The bay is generally visible from numerous public viewing areas. These include the Eureka waterfront itself, the A.M. Bistrin Memorial Bridge crossing of State Route 255 over Humboldt Bay, and along the bay shorelines of Indian Island and the Samoa Peninsula. In addition the dredge spoils disposal outfall would be visible from the open ocean and sandy beach areas in the immediate vicinity of the discharge line. In terms of scenic areas of

importance, the City of Eureka and the County of Humboldt LCPs both designate views of Humboldt Bay and the Pacific Ocean from specified viewing points as visual resource areas.

The project elements that would occur within the public viewshed include: (1) the dredge platform itself, along with any floating sections of pipe; (2) sections of flexible pipe placed across land segments to transport sediment for nearshore disposal, and (3) the ocean beach portions of the pipeline. However, views of these facilities would not result in a significant impairment of scenic resources, for the following reasons: (1) the presence of the dredge would simply blend in with other vessels already visible and should not be counted as an adverse impact, and (2) the surface-lain flexible piping for transporting dredge spoils slurry would be similarly temporary and vary in locale, depending on the particular disposal destination of the dredged materials.

Therefore, given its temporary and transient nature, and the fact that the proposed dredging and disposal activity would not significantly alter scenic public views within and along the shorelines of Humboldt Bay along the route of the dredge spoils transmission pipeline or along the open ocean shoreline in proximity to the dredge spoils pipeline outfall, the Commission finds that this project is consistent with Sections 30251 and 30240(b) of the Coastal Act.

# F. State Lands Commission Review.

The tide and submerged lands along the Eureka waterfront are administered by the City pursuant to a legislative grant. Thus the development within the dredging areas does not require State Lands Commission (SLC) authorization. However, the dredged material disposal site is located in the surf zone below the mean high tide line in state tidelands that have not been legislatively granted to the City or any other entity. Use of the disposal site requires authorization by the SLC.

On December 9, 2004, the SLC, by a unanimous 3-0 vote, approved a ten-year dredging lease with the City of Eureka and the Humboldt Bay Harbor, Recreation, and Conservation District for maintenance dredging and nearshore disposal of a maximum of 433,180 cubic yards of materials from ten sites along the City's waterfront and from the District's Woodley Island Marina. On March 8, 2005, the City amended its coastal development permit application to include the dredging and spoils disposal of an addition 3,800 cubic yards from an eleventh waterfront site, the Coast Seafoods Company Dock.

To assure that the applicant obtains all necessary property rights and authorizations to carry out the project and to comply with the terms and condition of this permit, the Commission attaches Special Condition No. 4 which requires that the applicant submit evidence that a lease amendment has been obtained from the SLC containing all necessary authorizations for dredge spoils disposal from all dredging areas, including the Coast Seafoods Company docking facility, prior to issuance of the permit.

# G. Other Local Agency Permits Required.

The Humboldt Bar Harbor, Recreation, and Conservation District (HBHRCD) was created in 1970 by the California Legislature to serve the natural resource, recreational, shipping, and economic development management needs of Humboldt Bay and the smaller fishing ports to the north and south (i.e., Trinidad, Shelter Cove). The District functions as the Port Authority for the Port of Humboldt Bay and operates Humboldt County's largest marina, Woodley Island Marina. The HBHRCD regulatory jurisdiction includes all of the waters of Humboldt Bay up to the Mean Higher High Water (MHHW) level (+6.52 feet NAVD<sub>1988</sub>) except for Indian, Woodley and Daby Islands where the District's jurisdiction extends up to the Mean High Water (MHW) elevation (+5.81 feet NAVD<sub>1988</sub>).

On October 14, 2004, the HBHRCD adopted a mitigated negative declaration environmental review document and approved Permit No. 04-02 for the City of Eureka to conduct maintenance dredging and nearshore disposal of materials from ten sites along the City's waterfront over a ten-year period. As the Harbor Commission's actions predated the applicant's permit application amendment to include the dredging and spoils disposal from the Coast Seafoods Company Dock site, authorization of maintenance dredging at that site has yet to be secured.

To assure that the applicant obtains all necessary authorizations to carry out the project and to comply with the terms and condition of this permit, the Commission attaches Special Condition No. 5 which requires that the applicant submit evidence that a permit amendment has been obtained from the HBHRCD containing all the necessary authorizations for spoils disposal from all dredging sites, including at the Coast Seafoods Company docking facility, prior to issuance of the permit.

# H. <u>U.S. Army Corps of Engineers Review.</u>

The project is within and adjacent to a navigable waterway and is subject to review by the U.S. Army Corps of Engineers (Corps). Pursuant to the Federal Coastal Zone Management Act, any permit issued by a federal agency for activities that affect the coastal zone must be consistent with the coastal zone management program for that state. Under agreements between the Coastal Commission and the U.S. Army Corps of Engineers, the Corps will not issue a permit until the Coastal Commission approves a federal consistency certification for the project or approves a permit.

On December 10, 1997, pursuant to Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act, the U.S. Army Corps of Engineers (Corps) issued Permit No. 22215N to the City of Eureka. The permit, which expires on March 15, 2008, is for maintenance dredging of accumulated sediment in the Outer and Inner Reaches of the Eureka Channel in Humboldt Bay, and for surf disposal of dredged material in the Pacific Ocean off the Samoa Peninsula, Humboldt County, California. The first dredging

episode took place in 1998, and permitted the City to excavate and dispose of 67,155 cubic yards (cy) of dredged materials. Although coho salmon (Oncorhynchus kisutch) of the Southern Oregon/Northern California Coast (SONCC) Evolutionarily Significant Unit (ESU) was listed as threatened at the time the permit was issued, the Corps did not consult NOAA Fisheries. However, a special condition of each permit required completion of Section 7 Endangered Species Act (ESA) consultation, prior to authorization of any additional dredging episode. Accordingly, based upon the recommendations received from NOAA Fisheries as contained in a biological opinion pending release in early to mid September, the terms and conditions of Permit No. 22215N may be changed through a Letter of Modification issued by the Corps.

To ensure that the second round of dredging activities ultimately approved by the Corps is the same as the project authorized herein, the Commission attaches Special Condition No. 3 which requires to applicant to demonstrate that it has all necessary approvals from the U.S. Army Corps of Engineers for the proposed project. The applicant is required to inform the Executive Director of any changes to the project by the Corps and not implement the changes until the applicant obtains a coastal development permit amendment.

# I. Consultations by National Marine Fisheries Service.

Pursuant to Section 7 of the Federal Endangered Species Act (16 USC 1531) and the Magnuson-Stevens Fishery Conservation and Management Act (50 CFR 600), the U.S. Army Corps of Engineers Federal Clean Water Act Section 404 individual permit is subject to prerequisite and interim consultations with the National Marine Fisheries Service (NOAA Fisheries) regarding the project's potential environmental effects on fisheries. As discussed in other sections of this report, draft comments and recommendations developed to date by NOAA Fisheries with respect to protecting the environmentally sensitive resources that might be adversely affected by the dredging project have been incorporated either in the project description by the applicant or attached as special conditions to the subject permit.

To ensure that the final biological opinion ultimately issued by NOAA Fisheries addresses the same project operational procedures and restrictions authorized herein, the Commission attaches Special Condition No. 6. Special Condition No. 6 requires the applicant to submit, for the review of the Executive Director, a copy of the final biological opinion issued for the dredging project, and notification of any project changes required by the Corps in response to the recommendations within the final opinion. The Executive Director would determine whether an amendment to the coastal development permit would be required before the dredging work could commence.

Furthermore, as set forth in Section 2080.1 of the California Fish and Game Code, for any threatened or endangered species co-listed under both the Federal Endangered Species Act and the California Endangered Species Act, for which the responsible federal

resource agency has issued an incidental take permit, the California Department of Fish and Game (CDFG) is directed to conduct a consistency review of that federal agency's action with CESA. To assure that the Commission is apprised of the results of such a consistency review, Special Condition No. 7 has been attached to the permit's approval requiring that, prior to issuance of the subject coastal development permit, the permittee provide a copy of the CDFG's determination. Furthermore, if the CDFG is compelled to issue a take permit pursuant to CESA, the applicant shall similarly submit a copy of the state incidental take permit project and the project shall not commence until the Executive Director has reviewed the take permit to determine whether an amendment to the coastal development permit is required.

# J. California Environmental Quality Act.

Section 13096 of the Commission's administrative regulations requires Commission approval of coastal development permit applications to be supported by a finding showing the application, as modified by any conditions of approval, to be consistent with any applicable requirement of the California Environmental Quality Act (CEQA). Section 21080.5(d)(2)(A) of CEQA prohibits a proposed development from being approved if there are feasible alternatives or feasible mitigation measures available, which would substantially lessen any significant adverse effect the proposed development may have on the environment.

The Commission incorporates its findings on conformity with the Chapter 3 policies of the Coastal Act at this point as if set forth in full. These findings address and respond to all public comments regarding potential significant adverse environmental effects of the project that were received prior to preparation of the staff report. As specifically discussed in these above findings, which are hereby incorporated by reference, mitigation measures that will minimize or avoid all significant adverse environmental impacts have been required. As conditioned, there are no other feasible alternatives or feasible mitigation measures available which would substantially lessen any significant adverse impacts which the activity may have on the environment. Therefore, the Commission finds that the proposed project can be found to be consistent with the requirements of the Coastal Act to conform to CEQA.

# V. <u>EXHIBITS</u>

- 1. Regional Location Map
- 2. Vicinity Map
- 3. Project Narrative and Site Map
- 4. Mid-Humboldt Bay Maintenance Dredging Overview Map
- 5. Dredge Spoils Pipeline Route Map
- 6. Spoils Nearshore Disposal Outfall Map
- 7. Executive Summary 1998 Dredge Spoils Disposal Site Monitoring Report

1-05-040 CITY OF EUREKA Page 46

- 8. 9.
- Review Agency Correspondence Memo from Jack Gregg PhD, CCC Water Quality Unit General Correspondence
- 10.

#### ATTACHMENT NO. 1

#### **STANDARD CONDITIONS:**

- 1. <u>Notice of Receipt and Acknowledgment</u>. The permit is not valid and development shall not commence until a copy of the permit, signed by the permittee or authorized agent, acknowledging receipt of the permit and acceptance of the terms and conditions, is returned to the Commission office.
- 2. <u>Expiration</u>. If development has not commenced, the permit will expire two years from the date on which the Commission voted on the application. Development shall be pursued in a diligent manner and completed in a reasonable period of time. Application for extension of the permit must be made prior to the expiration date.
- 3. <u>Interpretation</u>. Any questions of intent of interpretation of any condition will be resolved by the Executive Director or the Commission.
- 4. <u>Assignment</u>. The permit may be assigned to any qualified person, provided assignee files with the Commission an affidavit accepting all terms and conditions of the permit.
- 5. <u>Terms and Conditions Run with the Land</u>. These terms and conditions shall be perpetual, and it is the intention of the Commission and the permittee to bind all future owners and possessors of the subject property to the terms and conditions.